GE Electronic TUBE — KEN-RAD

12BD6
Description and Rating
RADIO-FREQUENCY AMPLIFIER PENTODE

GENERAL DESCRIPTION

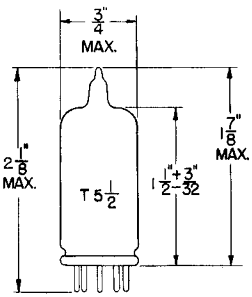
Principal Application: The 12BD6 is a miniature remote-cutoff amplifier pentode designed for use as a radio-frequency or intermediate-frequency amplifier. Electrically, the 12BD6 is similar to the 12SK7 and, except for heater ratings, is identical to the 6BD6.

Cathode	Coated Unipotential
Heater Voltage (A-C or D-C)	12.6 Volts
Heater Current	0.15 Ampere
Envelope	T-5½ Glass
Base	E7-1, Miniature Button 7-Pin
Mounting Position	Any

Direct Interelectrode Capacitances:

	With Shield #	Without Shield	
Grid 1 to Plate (Max)	0.005	0.004	μμf
Input	4.3	4.3	μμf
Output	5.0	5.0	μμf

PHYSICAL DIMENSIONS

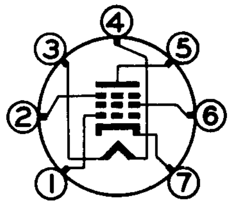


RTMA 5-2

TERMINAL CONNECTIONS

Pin 1 - Grid Number 1
Pin 2 - Grid Number 3 (Suppressor) and Internal Shield
Pin 3 - Heater
Pin 4 - Heater
Pin 5 - Plate
Pin 6 - Grid Number 2 (Screen)
Pin 7 - Cathode

BASING DIAGRAM



RTMA 7BK
BOTTOM VIEW

MAXIMUM RATINGS

DESIGN CENTER VALUES

Plate Voltage	300	Volts
Screen Voltage	125	Volts
Plate Dissipation	3.0	Watts
Screen Dissipation	0.65	Watt
Heater-Cathode Voltage	90	Volts

CHARACTERISTICS AND TYPICAL OPERATION

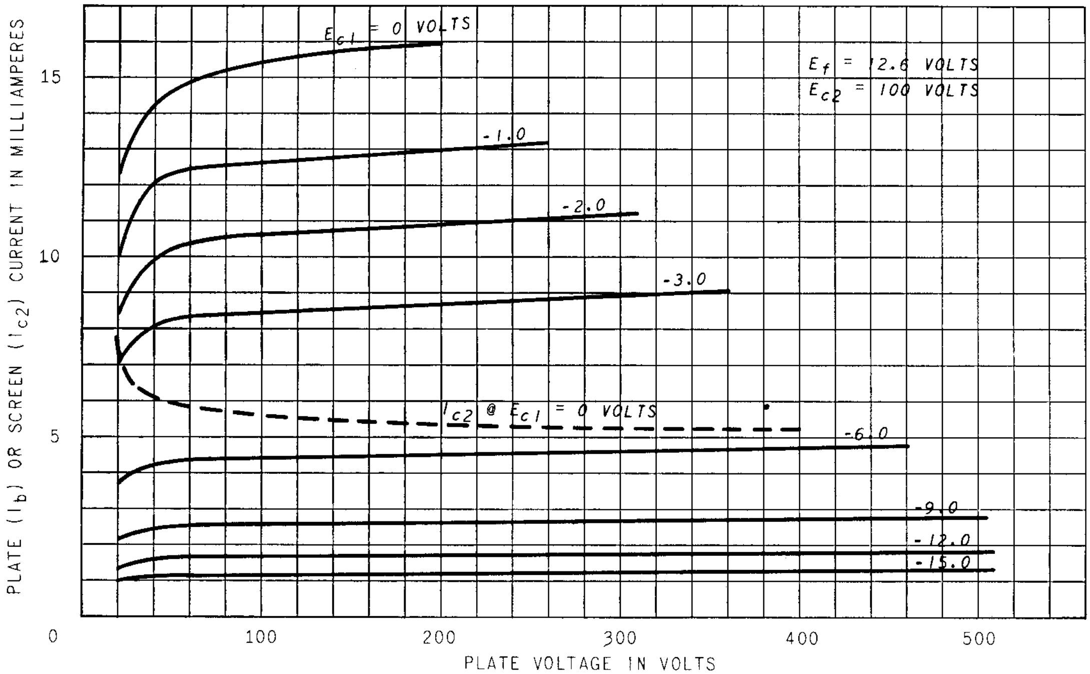
CLASS A_1 AMPLIFIER

Plate Voltage	100	125	250	Volts
Suppressor Voltage	0 *	0 *	0 *	Volts
Screen Voltage	100	125	100	Volts
Grid Number 1 Voltage	-1	-3	-3	Volts
Plate Resistance	0.15	0.18	0.8	Megohm
Transconductance	2250	2350	2000	Micromhos
Plate Current	13	13	9	Milliamperes
Screen Current	5	5	3	Milliamperes
Grid Number 1 Voltage (Approx) for G_m = 10 Micromhos	-35	-45	-35	Volts

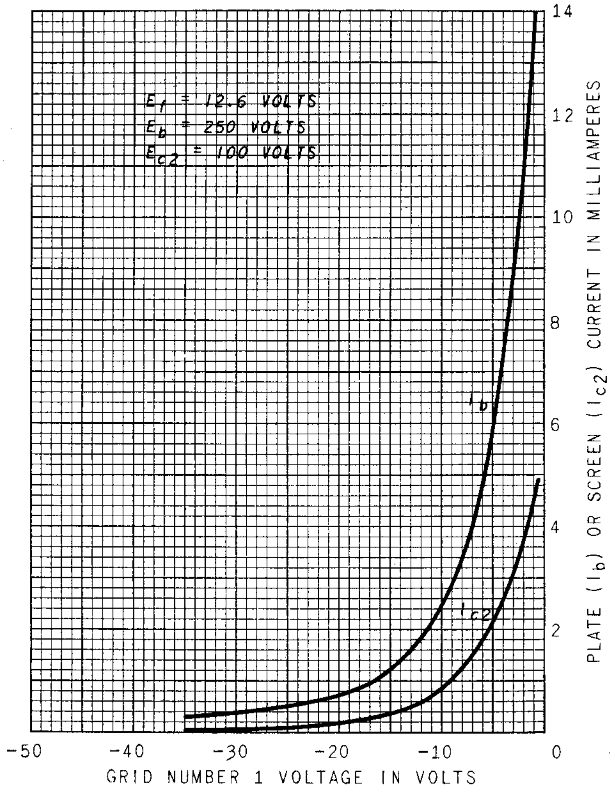
With external shield #316 connected to pin 7

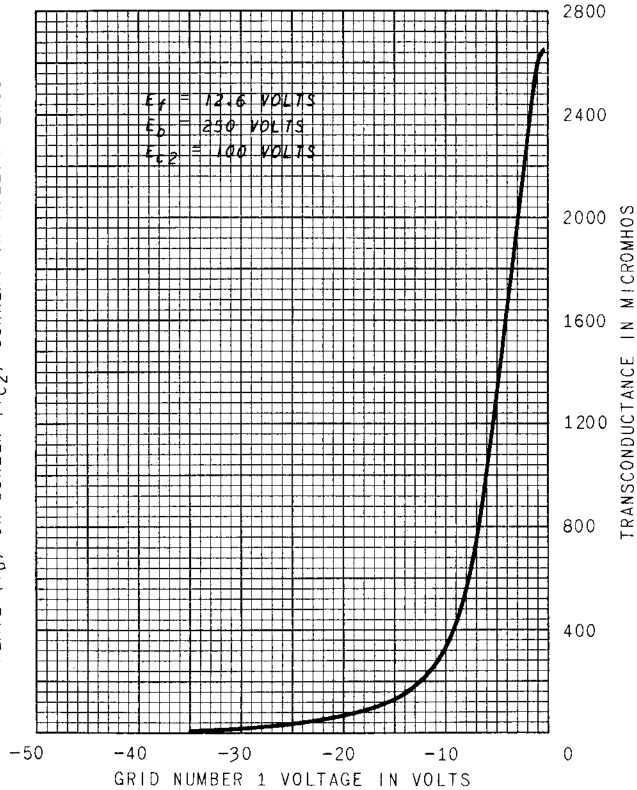
** Pin 2 connected to pin 7 at socket*

AVERAGE PLATE CHARACTERISTICS



AVERAGE CHARACTERISTICS





Tube Department, Electronics Division

GENERAL ELECTRIC

Schenectady, N. Y.